Worcester

City Hall, Room 103 455 Main Street Worcester, MA 01608 Phone 508-799-1062 Fax 508-799-1047

Board Members

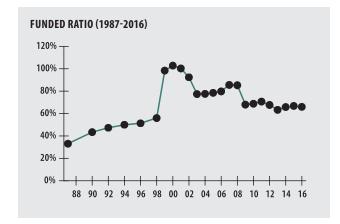
Stephen F. Wentzell (Chairperson), Elizabeth A. Early, John F. Mahan, Robert V. Stearns, Thomas M. Wade

Board Administrator

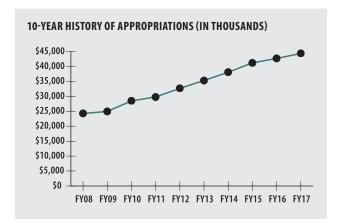
Elizabeth A. Early

Board Meeting

Second and Third Thursday of each month



INVESTMENT RETURN (2012-2016, 5 YEAR AND 32 YEAR AVERAGES) 16% 14% 12% 10% 8% 6% 4% 2% 0% 12 13 14 12-16 85-16



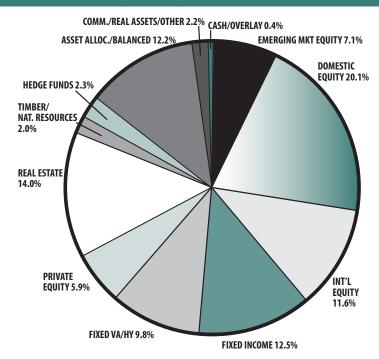
INVESTMENT RETURN HISTORY

8.69%	8.71%	9.03%
10 years 2016 4.66%	10 years 2015 5.30%	10 years 2014 6.38%
<u>5 years 2016</u> 7.85%	<u>5 years 2015</u> 6.06%	<u>5 years 2014</u> 8.99%

ACTUARIAL

► Funded Ratio		66.0%
▶ Date of Last Valuation		01/16
► Actuary		The Segal Company
► Assumed Rate of Return		7.50%
▶ Funding Schedule		5.85% Total Increasing
► Year Fully Funded		2033
► Unfunded Liability		\$437.6 M
► Total Pension Appropriation (Fiscal 2017)		\$44.4 M
	ACTIVE	RETIRED
Number of Members	3,275	2,722
► Total Payroll/Benefit	\$170.3 M	\$75.0 M
Average Salary/Benefit	\$52,000	\$27,500
▶ Average Age	47	NA
► Average Service	13.6 years	NA

ASSET ALLOCATION (12/31/16)



EARNED INCOME OF DISABILITY RETIREES (2015)

► Number of Disability Retirees	320
► Number Who Reported Earnings	70
► Number of Excess Earners	1
▶ Total Amount of Refund Due	\$26,496.12

▶ 2016 Return	8.29%
▶ 2016 Market Value	\$839.6M
▶ 2012-2016 (Annualized)	7.85%
▶ 1985-2016 (Annualized)	8.69%